

**METHODS AND COMPOSITIONS FOR REVERSIBLE INHIBITION OF
THERMOSTABLE POLYMERASES**

Abstract of the Disclosure

Methods for improving sensitivity and specificity of polynucleotide
5 synthesis are disclosed. The method includes reversibly blocking thermophilic
polymerase activity with non-nucleic acid polyanions in a temperature
dependent manner. The methods control target specific primer extension
throughout all stages of a DNA or RNA amplification reaction. Corresponding
compositions and kits are disclosed.

10